

WEST VIRGINIA ORDNANCE
ADMINISTRATIVE RECORD FILE * **
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. Response Activities Summary of McClintic Wildlife (West Virginia Ordnance), Point Pleasant, West Virginia, 4/81. P. 100001-100003. Figure 1, Sample Locations, is attached.
2. West Virginia Department of Natural Resources, Division of Water Resources, Analysis Request and Result Form, sample number 1, 5/6/81. P. 100004-100017. The following are attached:
 - a) a letter regarding analysis of fish from pond 13, dated December 14, 1981;
 - b) a sunfish sample analysis;
 - c) a Prepared Hazardous Waste Extract Custody Record, sample numbers 1 and 2;
 - d) two National Enforcement Investigations Center (NEIC)/Regulated Laboratory Inorganic Project Summaries, sample numbers 228, 228S, 228R, 229, 230, 228-01, 228S-01, 228R-01, 230-01, and 230-02;
 - e) five Preparation Parameter Results and Extracts, Inorganic forms, sample numbers 633-230, 633-228, 633-228S, 633-228R, and 633-229;
 - f) two Analysis Request and Result Forms, sample number 1.
3. Memorandum to Mr. Ben M. Wilmoth, U.S. EPA, from Mr. George R. Prince, U.S. EPA, re: Methodologies and analytical results from sediment and water sampling of ponds 12, 13, 15, and 17, 1/14/82. P. 100018-100021.

* Administrative Record File available 9/15/87, updated 2/24/88, and 8/21/97.

** Data Supporting Summary Sheets are located at the EPA Region III Central Regional Laboratory in Annapolis, Maryland.

Attachment 1, Concentration of TNT and DNT in Water and Sediment Samples from McClintic Wildlife Station, and a Sample Report Sheet are attached.

4. Letter to Mr. W. Topping, U.S. EPA, from Mr. Kevin McConnaghy, Mead CompuChem, re: Results of analytical work performed on three samples, 3/18/82. P. 100022-100025. An Organics Analysis Data Sheet is attached.
5. Report: Preliminary Assessment of McClintic Wildlife Station, Pt. Pleasant, West Virginia, prepared by Ecology & Environment, Inc., 6/29/81. P. 100026-100069.
6. Letter to Mr. Peter Bibko, U.S. EPA, from Mr. David C. Callaghan, State of West Virginia Department of Natural Resources, re: Request for funding for an immediate site investigation and development of a Feasibility Study, 9/21/81. P. 100070-100070.
7. Notes on water contamination prepared by Ms. Jane Massey, 11/3/81. P. 100071-100072.
8. Memorandum to the Secretaries of the Military Departments from Mr. Lawrence J. Korb, U.S. Department of Defense, re: Grant for U.S. EPA to access Department of Defense (DOD) installations to review hazardous waste site activities, 3/4/83. P. 100073-100074. An information packet entitled "Legislative and Regulatory References Pertinent to EPA Access to Department of Defense Installations for Purposes Related to Superfund" is attached.
9. Letter to Mr. Jim Johnson from Mr. William A. Hagel, U.S. EPA, re: Response to a request for documents, 5/27/84. P. 100075-100075.
10. West Coast Technical Service Sample Results, sample numbers C0571, C0570, C0769-C0774, and C0573. (undated). P. 100076-100077.

II. REMEDIAL ENFORCEMENT PLANNING

1. Deed between Mr. Jerome Goldberg and Ms. Alma Goldberg, Mr. L.F. Poffenbarger and Mrs. Virginia Poffenbarger, Mr. Martin Bowles, and the Mason County Development Authority, 12/3/75. P. 200001-200023. The following are attached:
 - a) a Property Map for the Mason County Development Authority;
 - b) a deed between G.P.B. Trading Company and the Court of Mason County, dated November 8, 1966;
 - c) a deed between G.P.B. Trading Company and the Court of Mason County, dated March 21, 1974;
 - d) a map of property owned by G.P.B. Trading Company;
 - e) a deed between the Mason County Development Authority and Power Distribution Products, Inc., dated December 20, 1978;
 - f) a Mason County Development Authority map showing a survey of lot number 20;
 - g) a deed between the Mason County Development Authority and Valley Leasing, Inc., dated November 18, 1981;
 - h) a property map for the Mason County Development Authority;
 - i) a map of Mason County property.

III. REMEDIAL RESPONSE PLANNING

1. Memorandum to Mr. Ben Wilmoth, U.S. EPA, from Mr. Roger L. Meyer, U.S. EPA, re: Summary of an emergency assessment site inspection, 11/25/81. P. 300001-300002.
2. Memorandum to file from Mr. Francis J. Mulhern, U.S. EPA, re: Telephone conversation with Dr. Donald Emig regarding Department of Defense's position on assessment and/or restoration, 1/4/82. P. 300003-300004.
3. Memorandum to Mr. Bruce Smith, U.S. EPA, from Mr. H.D. VanCleave, U.S. EPA, re: Denial of a request for immediate removal actions, 1/12/82. P. 300005-300005.
4. Memorandum to Mr. Christopher Capper, U.S. EPA, from Mr. Peter N. Bibko, U.S. EPA, re: Request by West Virginia for use of Superfund monies to conduct an immediate site investigation and Feasibility Study for the McClintic Wildlife Refuge, 1/22/82. P. 300006-300008. A copy of the first page of the memorandum with concurrence signatures is attached.
5. Letter to Mr. Lewis D. Walker, Office of the Assistant Secretary of the Army, from Mr. Peter N. Bibko, U.S. EPA, re: Consideration of spending public funds in order to investigate releases at the site, 3/24/82. P. 300009-300010.
6. Report: Sampling and Chemical Analysis Quality Assurance Program for U.S. Army Toxic and Hazardous Materials Agency (USATHMA), prepared by Department of the Army, 4/82. P. 300011-300190.
7. Letter to Mr. Lewis D. Walker, Office of the Assistant Secretary of the Army, from Mr. Peter N. Bibko, U.S. EPA, re: Determination that releases occurred at the site and that CERCLA monies can be expended for use in performing clean-up, study, and prevention activities, 11/23/82. P. 300191-300192.
8. Letter to Mr. William Hagel, U.S. EPA, from Mr. Robert E. Stecik, NUS Corporation, re: Initial Remedial Measures, Remedial Investigation, Long-Term Remedial Response, and Post Closure Maintenance and Monitoring information, 1/24/83. P. 300193-300202. Appendix A, Site Chronology, and a list of references are attached.

9. Letter to Mr. William Hagel, U.S. EPA, from Mr. Harold J. Wallum, Allied Corporation, re: Transmittal of documents concerning the site, 4/21/83. P. 300203-300236. The following are attached:
- a) two copies of the By-Laws of General Chemical Defense Corporation;
 - b) a Certificate of Incorporation of General Chemical Defense Corporation;
 - c) a letter regarding the purchase of West Virginia Ordnance Works, dated January 14, 1948;
 - d) a letter regarding approval for the loan of drawings for use in dismantling facilities at the site, dated January 23, 1948;
 - e) a letter regarding a bill of sale to Allied Chemical and Dye Corporation, dated January 28, 1948;
 - f) a letter regarding a bill of sale for equipment and material at the Ordnance facility, dated February 4, 1948;
 - g) a letter regarding the shipment of boxes containing documents, dated February 6, 1948;
 - h) a letter regarding the receipt of a shipment of boxes containing documents, dated February 17, 1948;
 - i) a letter regarding the shipment of documents for storage, dated April 27, 1949;
 - j) a letter regarding the receipt of a shipment of boxes, dated April 30, 1949;
 - k) a letter regarding the approval of a loan of documents stored at the Try-Me Storage Warehouse, dated May 9, 1949;
 - l) the last page of a letter regarding the history of the General Chemical Division of Allied Chemical and Dye Corporation, dated

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- m) background information about the site and the General Chemical Defense Corporation;
 - n) a letter regarding a request for any information regarding the West Virginia Ordnance Works, dated March 19, 1982;
 - o) a response to a request for information, dated April 2, 1982.
10. Letter to Mr. Peter N. Bibko, U.S. EPA, from Mr. Lewis D. Walker, Department of the Army, re: Comments on the Remedial Action Master Plan (RAMP), 5/18/83. P. 300237-300239. The comments are attached.
11. Report: Remedial Action Master Plan and Remedial Investigation/Feasibility Study Work Plan, McClintic Wildlife Area, Mason County, Point Pleasant, West Virginia, prepared by NUS Corporation, 9/83. P. 300240-300383.
12. Report: Site-Specific Quality Assurance Plan for the McClintic Wildlife Area Site Located in Point Pleasant, West Virginia, prepared by REMPO, 11/20/83. P. 300384-300407.
13. Letter to Mr. Lee Thomas, U.S. EPA, from Mr. Lewis D. Walker, Department of the Army, re: Recommendation for response actions to be taken at the site, 12/14/83. P. 300408-300409.
14. Letter to Mr. Lee M. Thomas, U.S. EPA, from Mr. Lewis D. Walker, Department of the Army, re: Transmittal of correspondences that address the Proposed Plan, 3/22/84. P. 300410-300427. The following are attached:
- a) the Former West Virginia Ordnance Works, U.S. Army Toxic and Hazardous Materials Agency Review of the Final Remedial Action Master Plan;
 - b) the West Virginia Ordnance Works, Areas of Disagreement;
 - c) the Former West Virginia Ordnance Works, U.S. Army Toxic and Hazardous Materials Agency

Milestone Schedule;

- d) a summary of a visit to West Virginia Ordnance Works, dated April 16-17, 1984;
 - e) a map to Fort Belvoir, Virginia.
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- 15. Memorandum to Mr. Thomas P. Eichler, U.S. EPA, from Mr. Stephen R. Wassersug, U.S. EPA, re: Delegation letter proposing authorization to conduct remedial actions, 5/22/84. P. 300428-300432. The delegation letter regarding the conducting of remedial actions, and a letter dated December 14, 1983 regarding a recommendation for response actions to be taken are attached.
 - 16. Report: Archives Search Report of the Former West Virginia Ordnance Works, Point Pleasant, W.Va., Volume I, prepared by Environmental Science and Engineering, Inc., 8/84. P. 300433-300599.
 - 17. Report: West Virginia Ordnance Works Environmental Survey, Referenced Appendices Supporting Data Items A003 and A004, prepared by Environmental Science and Engineering, Inc., 9/13/84. P. 300600-300728.
 - 18. Report: West Virginia Ordnance Works Environmental Survey, Final Technical Plan, prepared by Environmental Science and Engineering, Inc., 11/84. P. 300729-301006.
 - 19. Report: West Virginia Ordnance Works Environmental Survey, Referenced Appendices Supporting Data Items A003 and A004, prepared by Environmental Science and Engineering, Inc., 11/84. P. 301007-301135.
 - 20. Report: West Virginia Ordnance Works Environmental Survey, Final Management Plan, prepared by Environmental Science and Engineering, Inc., 11/84. P. 301136-301286. A bar chart and a network chart are attached to the report.
 - 21. Letter to Mr. William Hagel, U.S. EPA, from Mr. Andrew W. Anderson, Department of the Army, re: The U.S. Army Toxic and Hazardous Materials Agency's position regarding appropriate health risk criteria, 3/22/85. P. 301287-301292. Information regarding acceptable environmental/health risk objectives are attached.

22. Report: Environmental Survey of West Virginia Ordnance Works Project Review Meeting April 24-25, 1985, prepared by Environmental Science and Engineering, Inc., 4/25/85. P. 301293-301413.
23. Memorandum to Mr. William Hagel, U.S. EPA, from Mr. Richard Brunner, U.S. EPA, re: The appropriate health risk criteria for the West Virginia Ordnance Works Study, 4/26/85. P. 301414-301420. A letter dated March 22, 1985 regarding appropriate health risk criteria and a summary regarding the acceptable environmental/health risk objective are attached.
24. Report: West Virginia Ordnance Works Environmental Survey, Reactivity Test Plan, prepared by Environmental Science and Engineering, Inc., 7/85. P. 301421-301471.
25. Report: West Virginia Ordnance Works Remedial Investigation, Final Report, prepared by Environmental Science and Engineering, Inc., 9/85. P. 301472-302028.
26. Memorandum to Mr. Francisco Barba, U.S. EPA, from Mr. J. Gregory Hill, U.S. EPA, re: Review comments on the Remedial Investigation (RI), 10/10/85. P. 302029-302030.
27. Report: United States General Accounting Office, Briefing Report to the Chairman, Subcommittee of Environment, Energy, and Natural Resources, Committee on Government Operations, House of Representatives, Hazardous Waste, Status of Cleanup at the Former West Virginia Ordnance Works, prepared by the U.S. General Accounting Office, 12/85. P. 302031-302041.
28. Memorandum to Mr. Francisco Barba, U.S. EPA. from Ms. Libby Rhoads, U.S. EPA, re: Review comments on the Remedial Investigation, 2/26/86. P. 302042-302047A. The following are attached:
- a) a Figure 2.3-6, Soils Map;
 - b) Table 2.3-2, Log of USGS Test Boring Located East of TNT Manufacturing Area;

- c) Table 2.3-3, Soil Types Within the WVOW Site;
 - d) information concerning the site.
29. Report: West Virginia Ordnance Works Remedial Investigation, Final Report Appendices - Volume I, prepared by Environmental Science and Engineering, Inc., 3/86. P. 302048-302530.
 30. Report: West Virginia Ordnance Works Remedial Investigation, Final Report Appendices - Volume II, prepared by Environmental Science and Engineering, Inc., 3/86. P. 302531-303187.
 31. Memorandum to file from Mr. Hector M. Abreu-Cintron, U.S. EPA, re: Inability of West Virginia Department of Natural Resources to review the Endangerment Assessment (EA), 5/14/86. P. 303188-303188.
 32. Report: West Virginia Ordnance Works: Endangerment Assessment For Sewerlines, the TNT Manufacturing Area, and the Burning Grounds, Final Report, prepared by Environmental Science and Engineering, Inc., 6/86. P. 303189-303384. A Report Documentation Page is attached.
 33. Report: West Virginia Ordnance Works Feasibility Study for the TNT Manufacturing Area, The Burning Grounds, and the Industrial Sewerlines, Draft Final Report, prepared by Environmental Science and Engineering, Inc., 7/86. P. 303385-303633.
 34. Letter to Mr. Hector Abreu-Cintron, U.S. EPA, from Mr. Robert S. Metzger, II, Department of the Army, re: EPA's review comments on the Endangerment Assessment For Sewerlines, the TNT Manufacturing Area, and the Burning Grounds Report, 7/3/86. P. 303634-303637. The comments are attached.
 35. Memorandum to Mr. Hector Abreu, U.S. EPA, from Ms. Libby Rhoads, U.S. EPA, re: Review comments on the Feasibility Study (FS), 8/18/86. P. 303638-303639.
 36. Letter to Mr. Hector Abru [sic], U.S. EPA, from Mr. R.L. Zepp, Jr., U.S. Department of the Interior, re: U.S. Fish and Wildlife Service's comments on the Remedial Investigation/Feasibility Study (RI/FS) and the Endangerment Assessment, 9/30/86. P. 303640-303652. A memorandum dated October 4, 1985 regarding

the Preliminary Natural Resources Survey is attached.

37. Report: West Virginia Ordnance Works Feasibility Study for the TNT Manufacturing Area, the Burning Grounds, and the Industrial Sewerlines, Final Report - Volume I, prepared by Environmental Science and Engineering, Inc., 10/86. P. 303653-303902.
38. Report: West Virginia Ordnance Works Feasibility Study for the TNT Manufacturing Area, the Burning Grounds, and the Industrial Sewerlines, Final Report - Volume II, prepared by Environmental Science and Engineering, Inc., 10/86. P. 303903-304188.
39. Report: Feasibility Study, (no author cited), 10/18/86. P. 304189-304434. A Report Documentation Page is attached.
40. Memorandum to Mr. Hector Abreu-Cintrón, U.S. EPA, from Ms. Elizabeth Rhoads, U.S. EPA, re: Comments on the draft Enforcement Decision Document (EDD), 12/31/86. P. 304435-304435.
41. Letter to Mr. Hector M. Abreu-Cintrón, U.S. EPA, from Mr. Carl G. Beard, II, West Virginia Air Pollution Control Commission, re: Comments on the draft Enforcement Decision Document, 1/15/87. P. 304436-304437.
42. Record of Communication of Mr. Robert L. Kay, Jr., U.S. EPA, with Mr. Hector Abreu and Ms. Joyce McCurdy, U.S. EPA, re: A request for the Agency for Toxic Substances and Disease Registry (ATSDR) to provide their position on the proposed alternatives, 3/16/87. P. 304438-304438.
43. Letter to Mr. Hector Abreu, U.S. EPA, from Mr. Ronald R. Potesta, West Virginia Department of Natural Resources, re: Review of the Enforcement Decision Document, 3/17/87. P. 304439-304439.
44. Record of Decision, Remedial Alternative Selection for First Operable Unit, West Virginia Ordnance Works, Mason County, West Virginia, 4/3/87. P. 304440-304522.
45. Letter to Mr. Lewis D. Walker, Office of the Assistant Secretary of the Army, from Mr. Dennis P. Conroy, U.S. EPA, re: A request for a signature for final approval of the Record of Decision (ROD), 5/30/87. P. 304523-

304523.

46. Report: West Virginia Ordnance Works, Supplemental Remedial Investigation, Final Report, prepared by Environmental Science and Engineering, Inc., 8/87. P. 304524-304849.
47. Report: West Virginia Ordnance Works: Endangerment Assessment for Acids Area/Yellow Water Reservoir, Red Water Reservoirs, and the Pond-13/Wet Well Area, Draft Final Report, prepared by Environmental Science and Engineering, Inc., 8/87. P. 304850-305020.
48. Interagency Agreement, In The Matter Of: West Virginia Ordnance Works, Point Pleasant, West Virginia, Docket No. III-87-16-DC, 9/17/87. P. 305021-305026.
49. Report: West Virginia Ordnance Works Feasibility Study for the Acids Area/Yellow Water Reservoir, Red Water Reservoirs, and the Pond-13/Wet Well Area, Draft Final Report, prepared by Environmental Science and Engineering, Inc., 10/87. P. 305027-305339.
50. Letter to Mr. Hector Abreu, U.S. EPA, from Mr. Edward W. Perry, U.S. Department of the Interior, re: Review of the Feasibility Study, 2/4/88. P. 305340-305340.
51. Report: McClintic Wildlife Remedial Investigation Scope of Work, (no author cited), (undated). P. 305341-305351.
52. Memorandum to file from Mr. Hector M. Abreu-Cintrón, U.S. EPA, re: A telephone conversation with Mr. Freddie Sizemore concerning West Virginia State Air Laws, (undated). P. 305352-305352.
53. Quantity and Time Requirement, Point Pleasant, West Virginia, for E and E Corporate Personnel, (undated). P. 305353-305354. A Bid Proposal Estimating Sheet is attached.
54. Memorandum to Mr. Hector Abreu-Cintrón, U.S. EPA, from Ms. Patty Bubar, U.S. EPA, re: Review of the draft Enforcement Decision Document, (undated). P. 305355-305357.

55. Report: McClintic Wildlife Station, Point Pleasant, West Virginia, Feasibility Study Statement of Work, (no author cited), (undated). P. 305358-305366.
56. Memorandum of Understanding between the Department of Defense and the Environmental Protection Agency, (undated). P. 305367-305371.
57. Memorandum to Ms. Joyce McCurdy, U.S. EPA, from Mr. Robert L. Kay, Jr., U.S. Department of Health and Human Services, re: Health assessment of the site, (undated). P. 305372-305391. A list of references is attached.
58. Report: Extent of Contamination Study, McClintic Wildlife Refuge, Point Pleasant, West Virginia, prepared by Roy F. Weston, Inc., (undated). P. 305392-305495.
59. Report: Five-Year Review Report, West Virginia Ordnance Works, Point Pleasant, prepared by U.S. EPA, 1/30/95. P. 305496-305543.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

1. EPA Environmental News entitled "EPA Announces First 114 Top Priority Superfund Sites," 10/23/81. P. 500001-500003.
2. Information for Press Release, McClintic Wildlife, 1/7/83. P. 500004-500004.
3. National Priorities List (NPL) site description, West Virginia Ordnance, 7/83. P. 500005-500005.
4. EPA Environmental News entitled "Studies to Begin at McClintic Superfund Site," 6/13/84. P. 500006-500007.
5. U.S. Army Toxic and Hazardous Materials Agency press release entitled "Installation Assessment of the Former West Virginia Ordnance Works," 8/28/84. P. 500008-500009.
6. U.S. Army Toxic and Hazardous Materials Agency press release entitled "Army to Hold a Public Meeting at Point Pleasant, West Virginia," 11/4/86. P. 500010-500011.
7. Letter to Mr. Charles A. Bentley, U.S. EPA, from Colonel F.A. Themassy, U.S. Department of the Army, re: Transmittal of the Responsiveness Summary, 12/16/86. P. 500012-500023. The Responsiveness Summary is attached.
8. Fact Sheet, re: West Virginia Ordnance Works (WVOW), The Feasibility Study for the TNT Manufacturing Area, Burning Grounds, and Industrial Sewerlines at West Virginia Ordnance, (undated). P. 500024-500028.

GUIDANCE DOCUMENTS

1. "Properties and Essential Information for Safe Handling and Use of Dinitrotoluenes," 1966.
2. Executive Order 12088, "Federal Compliance with Pollution Control Standards," 10/13/78.
3. "Comparison of Gas Chromatographic and Gas Chromatographic/Mass Spectrometric Techniques for the Analysis of TNT and Related Nitromatic Compounds," by D.S. Weinberg and J.P. Hsu, 8/83.
4. EPA Federal Facilities Program Manual Appendices, Vol. II, 6/85.
5. West Virginia Administrative Regulations, Department of Natural Resources, 1986.
6. Routing and Transmittal Slip, re: Transmittal of "Indicator tubes for the Detection of TNT," presented by Eric D. Erickson, (undated).
7. Federal Facilities Program Manual for Implementing CERCLA Responsibilities of Federal Agencies, (undated).
8. EPA Staff Guidance Supplement to the Federal Facilities Program Manual, (undated).